



Applicant:

Trezza et al.

For:

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Multi-Wavelength Optical Communication System

## ABSTRACT OF DISCLOSURE

A multi-wavelength optical communication system includes a number of emitters each of which emits radiation at a different wavelength; a plurality of the detectors each of which senses radiation at a different wavelength corresponding to the radiation from one of the emitters and a shared waveguide including a scattering medium to transmit emitted radiation to the detectors.